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# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 62050455  
PUBLICATION DATE : 05-03-87

APPLICATION DATE : 29-08-85  
APPLICATION NUMBER : 60190497

APPLICANT : KANMETA ENG KK;

INVENTOR : UENO GUNJI;

INT.CL. : C23C 4/10

TITLE : COATING METHOD WITH CERAMIC

ABSTRACT : PURPOSE: To obtain a tough ceramic coating layer having high adhesion, superior heat, corrosion and wear resistances and high hardness by thermally spraying a composite material consisting of ceramics and a polymer on a surface to be processed.

CONSTITUTION: The surface of a material to be processed is ground according to the thickness of a coating layer to be formed and it is roughened by blasting or other method. After an underlayer is preferably formed by thermally spraying composite Ni-Al powder or the like, a composite material consisting of ceramics such as  $\text{Cr}_2\text{O}_3$ ,  $\text{Cr}_2\text{O}_3\text{-SiO}_2$ , other metallic oxide, TiC, other metallic carbide,  $\text{ZrB}_2$  or other metallic boride and a polymer such as polypropylene resin or silicone resin is thermally sprayed with plasma, a flame or the like. The surface of the resulting ceramic layer is treated with a pore sealing agent such as epoxy resin to seal the pores and the coated material is subjected to finish working to prescribed dimensions.

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